LOGGE M. N			BEGIN DATE 1-14-08		OREHOLE LOCATION (Lat/Long or North/East and Datum) N2120911.388 / E5997294.446 (NAD83)											HOLE ID DNB-R1			
DRILLII			CTOR and Testing, Inc.		BOREHOLE LOCATION (Offset, Station, Line) Offset 113ft R Sta 52+37 NB Alignment											SURFACE ELEVATION 11.830 ft (NAVD88)			
DRILLII	NG ME	THOD			DRILL RIG	DRILL RIG											BOREHOLE DIAMETER		
Mud SAMPL		•	AND SIZE(S) (ID)			Fraste Multi-drill (track) SPT HAMMER TYPE											5 in. HAMMER EFFICIENCY, ERI		
MC (2.4"),	SPT	(1.4"), Shelby (2.8		Automatic, 140 lbs., 30-inch drop														
			ILL AND COMPLETION rout backfill	V	READINGS		ER DURING DRILLING AFTER DRILLING (DATE)									TOTAL DEPTH OF BORING 98 ft			
I (ft)						tion	١	t			ţ	_	£	p					
ELEVATION (ft)	H (#)	_ ω				Sample Location Sample Number	per 6 In	Blows per Foot	ry (%)	<u> </u>	Content (%)	ב ב	Shear Strength (tsf)	Drilling Method Casing Depth					
LEVA	DEРТН (ft)	Material Graphics				ample	Blows p	ows p	Recovery (RQD (%)	onstar ontent	ος Σ	near S	illing					
Ш	-6-	ΞŌ	2" ASPHALT CONCRE	Description ETE		S S	B	B	Ř	χ Σ	عَ نَ عَ	<u>s</u> e	<u>છ ₹</u>	ت ت		Re	emarks		+
	1				to medium plasticity, dark gray coarse SAND and fine GRAVEL,														
9.83	2		with nails, woody debri	ris, mixed texture. [FILL]		S1		9											
	3					N ^{S1}	3 4	9	89										
7.83	4		CLAYEY SAND (SC).	very loose, dark gray to oliv	live gray, very	S2	5 32 ₁ 8		67										
	5		moist, trace fine grave	el, nails.			2 1								PID= 1.8 ppm				
5.83	6														PID= 1.	э ррш			
5.65			7.0' - 9.5', grades SAN	IDY CLAY to LEAN CLAY.															
	7		Poorly graded SAND ([MARINE SAND]	(SP), loose, dark gray, wet,	fine.	U3		RWO	87										
3.83	8		Fat CLAY (CH), soft, d	dark gray, wet. [BAY MUD]															E
	9												TV = 0.18,	-					
1.83	10											(0.24, 0.2						
	11			ose, gray, very moist to wet	, fine.														
-0.17	12		[MARINE SAND]			S4	1	3	67										
2.17 -2.17	13						1 2												
-2.17	14					S5	1	6	61										
KWA	15						2 4												
요 -4.17	16																		
LIKA	17																		
5 6 17	E		Poorly graded SAND (S6	15 19	43	78										
-6.17	18		moist, fine to medium. Grades with FAT CLA		,,	T S7	24	4	100										
און און און	19					X -	5 1 3												
[≮] -8.17	20		SANDY CLAY (CH), vilenses of clean SAND.	very soft, dark gray, very mo	ist, with	U8	, ,	RWO	93										
-2-00.0	21			. [6,											Daillean	_4	:-4		, E
-10.17	22		CLAYEY SAND (SC).	very loose, brown to grayis	h, very										of shelb		isiance	right at end	'
	23		moist, fine to medium,	, with lenses of clean sand.	[MARÎNE / 	S9	2 2	11	78										
-12.17	24		Poorly graded SAND (brown, moist, fine.	(SP), medium dense, brown	to grayish		9												
CALIKANS FORMAL DOVIEDRIVE, AKUPLOGS, 11-2-08: GFJ. AKUP LIBKAKY, CALIKANS FORMAL 10: 1-1: 1-1: 10: 10: 10: 10: 10: 10: 10: 10: 10: 1	-25	//	(continued)												Cuttings	reveal o	clayey s	and ~24.5	<u>-</u>
			(continued)	tmont of Transporter	ion		REPOR										HOLE		
SWA A			•	tment of Transportati on of Engineering Se		Ī	BORING RECORD DIST. COUNTY ROUTE POSTM								DNB-R1				
	4	7		F	4 S.F. 101 8.3/9.4 PROJECT OR BRIDGE NAME							9.4		1637	701				
I KAN							Doyle	Driv	e R	epla	cem	nent		ect		DATE		SHEET	
ž					BRIDGE NUMBER 34-164R				PREPARED BY T. Carroll					11-3-08 1 of 4					

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Mosture Content (%) Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Eddən Bir Bir Bir Bir Bir Bir Bir Bir Bir Bir	
-14.17	26		CLAYEY SAND (SC), ~stiff, medium plasticity, yellowish brown, moist. [COLMA SAND]			_					.,.		26.5' Driller notes drilling faster below	
-16.17	27		Poorly graded SAND (SP), very dense, brown to yellowish brown, moist to very moist, fine, with some iron-oxide staining.	X	S10	22 30 41	71	89					26.5'	
-18.17			Grades very dense, with angular to subangular fine GRAVEL (graywacke sandstone fragment ~1.5") at 29.5', with SANDY CLAY lenses.	M	S11	7 23 47	70	100						
-20.17	31 32 33		32.0' - 32.5', grades with iron-oxide stained seams.	X	S12	20 40	84	94						
-22.17					S13	15 28 43	71	100						
-24.17	36		37.0' - 37.5', iron-oxide stained seams grade 0.5" thick.	V	S14	21	74	100						
-26.17	38		Grades with CLAYEY SAND lenses.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S15	30 44 19	99	100						
-28.17			Grades very fine, with trace SILT.	A		49 50								
-30.17	42			H	S16	23 38 50/5"	88/ 11"	100						
ORMAT.GLB 11/3/08	44				S17	14 50/ 5.5"	50/ 5.5"	100						
-34.17	46													
-36.17	48		Grades with lenses of CLAYEY SAND. 47.5' - 47.9', iron-oxide staining. CLAYEY SAND (SC): dense, brownish gray to yellowish brown, moist, fine.	Д	S18 S19	30 50/5" 15 20 26	50/5" 46	100						
-38.17 -38.17	50					20								
-40.17	52		52.0' - 52.5', grades gray.	X	S20	16 16 24	40	100					Drilling slows at 51.5' per driller material remains clayey sand	
781VE -42.17	54													
YLED	-55-		(continued)											
CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11.2-08.GPJ ARUP LIBRARY_CALTRANS FO			Department of Transportation Division of Engineering Services Geotechnical Services	_	D 4 P	ROJE	NG CT OI Driv	RECOUN S.F. R BR ve F	ITY IDGE Repla	RD ROU 10° NAME acemer	1 nt Proje	8.3	HOLE ID DNB-R1 STMILE EA 163701 DATE SHEET	
CAL						34-16				T. Cari	roll		11-3-08 2 of 4	

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%) Dry Unit Weight	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks	
	- 55		CLAYEY SAND (SC): dense, brownish gray to yellowish brown, moist, fine.												Ī
-44.17	56		Grades very dense, greenish gray, with grayish brown laminations (57-57.5'), with horizontal iron-oxide laminations.												E
	57		aa	\bigvee	S21	9	55	100							
-46.17	58			\backslash		21 34									
	59														
-48.17	60														
	61														
-50.17	62		Doods and d CAND with OUT (OD CAN) and door												
	63		Poorly graded SAND with SILT (SP-SM), very dense, greenish gray, wet, fine.		S22	23	50	100							
50.17	E			<u> </u>		27									
-52.17	64												Drilling slowe	er 64.5 ~65' per driller,	
	65												clay layer	·	
-54.17	66														E
	67		Grades with occasional black pieces of decayed vegetation, lenses of SANDY CLAY.	V	S23			100							
-56.17	68			A		46 50/ 4.5"	10.5"								
	69		Poorly graded SAND (SP), very dense, dark gray, moist.			4.5									
-58.17	70														E
	71														
-60.17	72														
	73		Grades with lenses of CLAYEY SAND.	\mathbb{N}	S24	33 31	51	100							
E 60.47	E		Fat CLAY (CH), stiff to very stiff, greenish gray, trace fine	<u> </u>		20									
를 -62.17 	74		SAND. [OLD BAY CLAY]												E
Ž.	75														
-64.17 Y	76														
S	77				U25	i	RW/	80							E
-66.17	78						12", 450								
7 D	79						psi/ 18"				PP =	+			E
-68.17	80			ľ							1.75, 1.85,				
00.00 0.00	81										1.6, 1.7 TV =				
-70.17	82										>2.5				
300	83														
D Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y															E
[₹] -72.17 	84		84.0', grades with fine SAND, dark gray.												
	- 85 -		(continued)								,				
ă 🗸			Department of Transportation		L	REPOR BORI	NG	REC						HOLE ID DNB-R1	
Division of Engineering Services Geotechnical Services								DIST. COUNTY ROUTE POSTMILE EA 163701							
SING.	PROJECT OR BRIDGE NAME Doyle Drive Replacement Project														
Fat CLAY (CH), stiff to very stiff, greenish gray, trace fine SAND. [OLD BAY CLAY] Fat CLAY (CH), stiff to very stiff, greenish gray, trace fine SAND. [OLD BAY CLAY] Fat CLAY (CH), stiff to very stiff, greenish gray, trace fine SAND. [OLD BAY CLAY] Fat CLAY (CH), stiff to very stiff, greenish gray, trace fine SAND. [OLD BAY CLAY] Fat CLAY (CH), stiff to very stiff, greenish gray, trace fine SAND, dark gray, as a series of class with fine SAND, dark gray, trace fine SAND, dark gray. Continued) Department of Transportation Division of Engineering Services Geotechnical Services Geotechnical Services								BRIDGE NUMBER PREPARED BY DATE 34-164R T. Carroll 11-3							

